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TECH CENTER 1600



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/033,742A

DATE: 07/01/2003 P.6

TIME: 17:52:33

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\07012003\J033742A.raw

4 <110> APPLICANT: James Karras  
 5 Thomas Condon  
 7 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF MACROPHAGE INFLAMMATORY PROTEIN 3-  
 ALPHA EXPRESSION

9 &lt;130&gt; FILE REFERENCE: ISPH-0623

11 &lt;140&gt; CURRENT APPLICATION NUMBER: US/10/033,742A

12 &lt;141&gt; CURRENT FILING DATE: 2001-12-28

14 &lt;160&gt; NUMBER OF SEQ ID NOS: 32

16 &lt;210&gt; SEQ ID NO: 1

17 &lt;211&gt; LENGTH: 20

18 &lt;212&gt; TYPE: DNA

19 &lt;213&gt; ORGANISM: Artificial Sequence

21 &lt;220&gt; FEATURE:

22 &lt;223&gt; OTHER INFORMATION: Antisense Oligonucleotide

24 &lt;400&gt; SEQUENCE: 1

25 tccgtcatcg ctctcaggg

20

27 &lt;210&gt; SEQ ID NO: 2

28 &lt;211&gt; LENGTH: 20

29 &lt;212&gt; TYPE: DNA

30 &lt;213&gt; ORGANISM: Artificial Sequence

32 &lt;220&gt; FEATURE:

33 &lt;223&gt; OTHER INFORMATION: Antisense Oligonucleotide

35 &lt;400&gt; SEQUENCE: 2

36 atgcattctg cccccaagga

20

38 &lt;210&gt; SEQ ID NO: 3

39 &lt;211&gt; LENGTH: 799

40 &lt;212&gt; TYPE: DNA

41 &lt;213&gt; ORGANISM: Homo sapiens

43 &lt;220&gt; FEATURE:

44 &lt;221&gt; NAME/KEY: CDS

45 &lt;222&gt; LOCATION: (59)...(349)

47 &lt;400&gt; SEQUENCE: 3

48 cactcccaaa gaactgggta ctcaacactg agcagatctg ttctttgagc taaaaaacc 58

50 atg tgc tgt acc aag agt ttg ctc ctg gct gct ttg atg tca gtg ctg 106

51 Met Cys Cys Thr Lys Ser Leu Leu Leu Ala Ala Leu Met Ser Val Leu

52 1 5 10 15

54 cta ctc cac ctc tgc ggc gaa tca gaa gca gca agc aac ttt gac tgc 154

55 Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe Asp Cys

56 20 25 30

58 tgt ctt gga tac aca gac cgt att ctt cat cct aaa ttt att gtg ggc 202

59 Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe Ile Val Gly

60 35 40 45

62 ttc aca cgg cag ctg gcc aat gaa ggc tgt gac atc aat gct atc atc 250

63 Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile Asn Ala Ile Ile

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```

64      50      55      60
66 ttt cac aca aag aaa aag ttg tct gtg tgc gca aat cca aaa cag act 298
67 Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr
68 65      70      75      80
70 tgg gtg aaa tat att gtg cgt ctc ctc agt aaa gtc aag aac atg 346
71 Trp Val Lys Tyr Ile Val Arg Leu Leu Ser Lys Lys Val Lys Asn Met
72      85      90      95
74 taa aaactgtggc ttttctggaa tggaattgga catagcccaa gaacagaaaag 399
76 aaccttgctg gggttggagg ttctacttgc acatcatgga gggtttagtg cttatctaata 459
77 ttgtgcctca ctggacttgt ccaattaatg aagttgattc atattgcatc atagtttgct 519
78 ttgtttaagc atcacattaa agttaaaactg tattttatgt tatttatagc tgtaggtttt 579
79 ctgtgttttag ctatttaata ctaattttcc ataagctatt ttggttttagt gcaaagtata 639
80 aaattatatt tgggggggaa taagattata tggactttct tgcaagcaac aagctatttt 699
81 ttaaaaaaac tatttaacat tcttttgttt atattgtttt gtctcctaaa ttgttgtaat 759
82 tgcattataa aataagaaaa acattaataa gacaaatatt 799
84 <210> SEQ ID NO: 4
85 <211> LENGTH: 25
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: PCR Primer
92 <400> SEQUENCE: 4
93 aaaccatgtg ctgtaccaag agttt 25
95 <210> SEQ ID NO: 5
96 <211> LENGTH: 18
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: PCR Primer
103 <400> SEQUENCE: 5
104 cgccgcagag gtggagta 18
106 <210> SEQ ID NO: 6
107 <211> LENGTH: 28
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: PCR Probe
114 <400> SEQUENCE: 6
115 gctcctggct gctttgatgt cagtgtgtg 28
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 19
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: PCR Primer
125 <400> SEQUENCE: 7
126 gaaggtgaag gtcggagtc 19
128 <210> SEQ ID NO: 8
129 <211> LENGTH: 20

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130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: PCR Primer
136 <400> SEQUENCE: 8
137 gaagatggtg atgggatttc                20
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 20
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: PCR Probe
147 <400> SEQUENCE: 9
148 caagcttccc gttctcagcc                20
150 <210> SEQ ID NO: 10
151 <211> LENGTH: 20
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Antisense Oligonucleotide
158 <400> SEQUENCE: 10
159 taccagtttc tttgggagtg                20
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 20
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Antisense Oligonucleotide
169 <400> SEQUENCE: 11
170 agtgttgagt acccagttct                20
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 20
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Antisense Oligonucleotide
180 <400> SEQUENCE: 12
181 agatctgctc agtgttgagt                20
183 <210> SEQ ID NO: 13
184 <211> LENGTH: 20
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Antisense Oligonucleotide
191 <400> SEQUENCE: 13
192 ctcaaagaac agatctgctc                20
194 <210> SEQ ID NO: 14
195 <211> LENGTH: 20
196 <212> TYPE: DNA

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197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Antisense Oligonucleotide
202 <400> SEQUENCE: 14
203 tggtttttag ctcaaagaac 20
205 <210> SEQ ID NO: 15
206 <211> LENGTH: 20
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Antisense Oligonucleotide
213 <400> SEQUENCE: 15
214 gtacagcaca tggtttttag 20
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 20
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Antisense Oligonucleotide
224 <400> SEQUENCE: 16
225 aagttgcttg ctgcttctga 20
227 <210> SEQ ID NO: 17
228 <211> LENGTH: 20
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Antisense Oligonucleotide
235 <400> SEQUENCE: 17
236 cagcagtcaa agttgcttgc 20
238 <210> SEQ ID NO: 18
239 <211> LENGTH: 20
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Antisense Oligonucleotide
246 <400> SEQUENCE: 18
247 gtgtgaaaga tgatagcatt 20
249 <210> SEQ ID NO: 19
250 <211> LENGTH: 20
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Antisense Oligonucleotide
257 <400> SEQUENCE: 19
258 attccagaaa agccacagtt 20
260 <210> SEQ ID NO: 20
261 <211> LENGTH: 20
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence

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Input Set : A:\PTO.DC.txt

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```

265 <220> FEATURE:
266 <223> OTHER INFORMATION: Antisense Oligonucleotide
268 <400> SEQUENCE: 20
269 gtccaattcc attccagaaa                                20
271 <210> SEQ ID NO: 21
272 <211> LENGTH: 20
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Antisense Oligonucleotide
279 <400> SEQUENCE: 21
280 cttgggctat gtccaattcc                                20
282 <210> SEQ ID NO: 22
283 <211> LENGTH: 20
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Antisense Oligonucleotide
290 <400> SEQUENCE: 22
291 caaggttctt tctgttcttg                                20
293 <210> SEQ ID NO: 23
294 <211> LENGTH: 20
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Antisense Oligonucleotide
301 <400> SEQUENCE: 23
302 gtgaaacctc caaccccagc                                20
304 <210> SEQ ID NO: 24
305 <211> LENGTH: 20
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Antisense Oligonucleotide
312 <400> SEQUENCE: 24
313 ttagataagc actaaaccct                                20
315 <210> SEQ ID NO: 25
316 <211> LENGTH: 20
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Antisense Oligonucleotide
323 <400> SEQUENCE: 25
324 gcaatatgaa tcaacttcat                                20
326 <210> SEQ ID NO: 26
327 <211> LENGTH: 20
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/033,742A

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Input Set : A:\PTO.DC.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:32; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/033,742A

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L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 101033,742A

CRF Processing Date: 7/01/03  
Edited by: DC  
Verified by: DC (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: ENTERED
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading, and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95